



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/022,336	02/11/1998	WILLIAM E. M. JONES	21583-B-USA	5567

7590 11/30/2004

GARY A HECHT
SYNNESTVEDT & LECHNER
2600 ARAMARK TOWER
1101 MARKET STREET
PHILADELPHIA, PA 191072950

EXAMINER

MAPLES, JOHN S

ART UNIT PAPER NUMBER

1745

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/022,336

Applicant(s)

JONES ET AL.

Examiner

John S. Maples

Art Unit

1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 12, 15, 18, 19, 22-25, 27, 29-31, 33, 34, 36, 38, 40 and 42-53 ~~is~~ are pending in the application.
- 4a) Of the above claim(s) 1-6 and 31 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7, 12, 15, 18, 19, 22, 23, 25, 27, 29, 30, 36, 38, 40 and 42-53 ~~is~~ are rejected.
- 7) ☒ Claim(s) 24, 33 and 34 ~~is~~ are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☒ Other: Reasons for Allowance.

Art Unit: 1745

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 15, 18-19, 22-23, 25, 40, 42, 44-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Catylators Limited-UK 871,605 (CL) in view of Marui-US 3,832,238 (Marui).
(New Rejection)

Reference is made to page 1 of CL, lines 16-63 along with page 3, lines 9-15 and Figures 1-5 of the same. The patent to CL teaches in Figure 1 a container 3 for a battery to be placed in the top of the battery made of ceramic, a flame arresting material, in which a catalyst material 1 is placed. It is noted that lines 61-63 in CL provide a coating on the outside of the container made of "a water-repellent substance such as a silicone". The patent to CL does not specifically teach PTFE on the outside of the container. Marui sets forth in column 5, lines 22-23 a container for a battery also having a container that houses a catalyst material, which container "may be made water repellant by treatment with silicone, Teflon or paraffin". It is inherent in the film of

Art Unit: 1745

Marui for the thickness and the pore size to have been within the range set forth in claims 18 and 19 since such allow gases to pass there through but not water. Also, the size recited in claim 22 would also have been obvious so that the catalyst would function with maximum efficiency to rid the cell of unwanted gases. In any event, size is not a patentable feature-see In re Aller, 105 USPQ 233. With regard to claim 25, the PTFE in Marui would have had at least four layers, if merely on the atomic level. To have utilized the PTFE of Marui for the coating in CL would have been obvious to one of ordinary skill in this art at the time the invention was made so that the PTFE would keep moisture out of the catalyst container. In addition, CL provides for such material as outlined previously in this paragraph.

4. Claims 7, 12, 27, 29-30, 36, 38 and 51-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over German-2904842 ('842) in view of both CL and Marui. (New Rejection)

The '842 patent discloses a lead acid battery having a pressure relief valve in the cover thereof having a catalyst container as part thereof. The container is secured to the pressure valve. See Figures 2 and 3 of '842. The outer portion of ceramic frit 18 comprises the claimed cage. The only claimed feature not taught by '842 is the makeup of the catalyst container. With reference to section 3 of this action, the combination of CL and Marui set forth the claimed catalyst container having the PTFE on the outside thereof. To have included the catalyst container of CL and Marui formed in the top of the battery of '842 would have been obvious to one of ordinary skill in this art at the time the invention was made so that the battery would include the enhanced flame resistant container provided by the container of CL. This would protect the catalyst from flames within the battery cell.

Art Unit: 1745

5. The following is an examiner's statement of reasons for allowance: none of the prior art of record teach a catalyst container having a flame resistant container housing a catalyst coated with PTFE, wherein the container has an opening that is sealed closed with an epoxy. The art also does not envision a vent body having mating pins extending into opening in a cage that supports a catalyst container.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

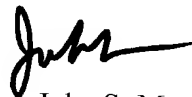
6. Claims 24, 33 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Thursday from 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1745

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John S. Maples
Primary Examiner
Art Unit 1745

JSM/11-29-2004